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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/676,158		10/02/2003	Kozo Katayama	XA-9583B	6700	
181	7590	7590 01/13/2005 EX				
		BRIDGE PC	NGO, NO	NGO, NGAN V		
1751 PINN. SUITE 500		UVE	ART UNIT	PAPER NUMBER		
MCLEAN,	VA 221	02-3833	2814			
				DATE MAILED: 01/13/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Ap	plication No.	Applicant(s)					
		10	)/676,158	KATAYAMA ET A	.L.				
0	ffice Action Summary	Ex	aminer	Art Unit					
			an Ngo	2814					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTE THE MAILI - Extensions of after SIX (6) - If the period - If NO period - Failure to rep Any reply rec	ENED STATUTORY PERIOD FO NG DATE OF THIS COMMUNION f time may be available under the provisions of MONTHS from the mailing date of this common for reply specified above, is less than thirty (30 for reply is specified above, the maximum stated by within the set or extended period for reply of the term adjustment. See 37 CFR 1.704(b).	CATION. of 37 CFR 1.136(a). unication. d) days, a reply withitutory period will appwill, by statute, caus	In no event, however, may a reply b n the statutory minimum of thirty (30) ply and will expire SIX (6) MONTHS t e the application to become ABANDO	e timely filed  days will be considered timel from the mailing date of this considered (35 U.S.C. § 133).					
Status									
2a)☐ This 3)☐ Since	Responsive to communication(s) filed on <u>02 October 2003</u> .  This action is <b>FINAL</b> . 2b) This action is non-final.  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of	Claims								
<ul> <li>4) Claim(s) 26-32 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) Claim(s) is/are allowed.</li> <li>6) Claim(s) 26-30 and 32 is/are rejected.</li> <li>7) Claim(s) 31 is/are objected to.</li> <li>8) Claim(s) are subject to restriction and/or election requirement.</li> </ul>									
Application Page 1	apers				·				
10) The c Appli Repla	specification is objected to by the drawing(s) filed on is/are: cant may not request that any objected to acement drawing sheet(s) including that or declaration is objected to	a) accepte ction to the draw the correction i	ving(s) be held in abeyance. s required if the drawing(s) is	See 37 CFR 1.85(a). sobjected to. See 37 C					
Priority under	35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No. 09/988,725.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) Notice of D 3) Information	eferences Cited (PTO-892) raftsperson's Patent Drawing Review (P Disclosure Statement(s) (PTO-1449 or )/Mail Date <u>1003</u> .			nary (PTO-413) ail Date nal Patent Application (PT	<sup>-</sup> O-152)				

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specification.

The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the

The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 26-30 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Chen et al in view of Forbes.

Chen discloses a nonvolatile memory cells comprising a memory gate (554), a first insulating film (548), a second insulating film (543), a first switch gate (556) formed over a third insulating film, a second switch gate (555) formed over a fourth insulating film, a second semiconductor region (under element 515), and a third semiconductor region (under element 516). However, Chen does not disclose the use of a central processing unit. Forbes et al disclose in figure 3 that a central processing unit can be used to read and write to nonvolatile memory. Therefore, it would have been obvious to one of ordinary skill in the art to use a central processing unit with Chen's memory cells in order to program and read data as taught by Forbes.

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In re claim 27, line 36, column 1 of Forbes teaches that random access memory can be used for a work memory for the CPU.

In re claim 29, it is known that EEPROM is capable of rewriting data stored therein.

In re claim 30, it is known to one of ordinary skill in the art to use more than one memory in a semiconductor apparatus.

In re claim 32, it is known that memory cell is capable of storing data by trapping electrons in memory gate thereof to change a threshold voltage.

Claim 31 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The other references are cited to show other structures pertinent to Applicants' disclosure.

Any inquiry concerning this communication should be directed to Examiner Ngan Ngo at telephone number (571) 272-1711. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ngan Van Ngo Primary Examiner

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Ngan Ngo

January 9, 2005